Eduardo Gutarra

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| **Email:** edvelez.g@gmail.com | **Phone:** (832)-520-3556 |

**Career Objective**

*Obtain a position where I can maximize my skills as a software developer or computer scientist.*

**Education**

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| **Research-based Master of Computer Science (MCS)** | University of New Brunswick Saint John, NB, Canada Thesis Title: Multi-column bitmap indexing Emphasis: Databases  G.P.A. 4.0 | Jan 2010 – Graduated May 2012 |
| **Bachelor of Computer Science** | EAFIT University Medellin, Antioquia, Colombia  Thesis: [Viper-SUGUI: A Simulator of P-Waves](https://code.google.com/p/viper-sugui/) using [Seismic Unix](http://www.cwp.mines.edu/cwpcodes/). Developed program with C++ and [Qt project](http://qt-project.org/) to emulate P-waves as they travel towards the center of the Earth.  G.P.A. 4.3/5.0 | Jun 2009 |

**IT Skill set**

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| **Languages** | : | Proficient in Java, C/C++, C#. NET, Ruby |
| **Databases** | : | SQL Server 2005/2008R2, MySQL |
| **Operating systems** | : | Windows, UNIX and OSX |
| **Development tools** | : | Subversion, Git, Eclipse, Visual Studio, Visual Slickedit, Qt Project, Seismic Unix |
| **Design Tools** | : | Enterprise Architect (UML diagramming tool), MS Visio |

**Certifications**

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| **Certification on Foundational CS Courses—Industrial Perspective** | INFOSYS, Mysore, Karnataka, India  Emphasis: .NET technologies: ASP.NET, ADO.NET, C#.NET and the Visual Studio IDE. | Jul-Oct 2009 |

**Experience**

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| **TIBCO OpenSpirit** | 4800 Sugar Grove Boulevard #500,  Stafford, TX 77477 | Oct 2011 - Present |
| * Currently working on major updates to the Petra data connector (Java and C++ on Windows). * Currently working on design and development of IHS Kingdom 2015 data connector (C++ Windows and Java JNI). * Maintained and improved performance of data connectors for IHS products: [Kingdom](https://www.ihs.com/products/kingdom-seismic-geological-interpretation-software.html) and [Petra](https://www.ihs.com/Info/en/a/intelligent-workflows/petra.html) (C++ and C# Windows). * Worked on updating code base of [Geoframe’s](http://www.software.slb.com/newsandevents/topnews/Pages/GeoFrame-2012-now-available.aspx) Charisma data connector (C++ UNIX). * Worked in maintenance of the [Openworks](https://www.landmarksoftware.com/Pages/OpenWorksDatabaseApplication.aspx) data connector (C++ UNIX)*.* | | |
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| **Teaching Assistant** | University of New Brunswick Computer Science and Applied Statistics Department (CSAS) Saint John, NB, Canada | 2010-May 2011 |
| Assisted with instructional responsibilities for the following courses:   * Programming in Matlab * Programming in Java * Computer Science Concepts (Java) * Data Structures and Algorithms (C) | | |
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| **Software Engineer Intern** | ION Geophysical  Houston, TX 77449 | Jun 2008-Jan 2009 |
| * Created a command line utility for indexing trace header information in C++ using Boost and Qt. A second command line utility was also created to query the index for trace header information improving the performance of certain attribute lookups. * Performed research on MySQL storage engines. * Deployed google-breakpad, a multi-platform crash reporting system. | | |
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| **Teaching Assistant** | EAFIT University  Medellin, Colombia | Jan 2007-May 2008 |
| * Assisted with instructional responsibilities for Compilers and Programming Fundamentals courses. | | |
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| **Web Developer** | Panagro S.A.,  Medellin, Colombia | Summers 2004-2010 |
| * Designed and developed various web applications and web pages. * Programmed macros in Visual Basic for Excel worksheets. | | |

**Publications**

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| Daniel Lemire, Owen Kaser and Eduardo Gutarra, “Reordering Rows for Smaller Indexes:  Beyond the Lexicographic Order”, *ACM Transactions on Database Systems*, (accepted June 4, 2012). |

**Honors and Awards**

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| Scholarship to UNB | 2010-2011 |
| Ranked 1st in INFOSYS Training Program’s Evaluations | Oct 2009 |
| GEMIS Award for undergraduate project called Viper-SUGUI | May 2009 |

**Associations**

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| Society of Exploration Geophysicists (SEG) | 2008-Present |
| Semillero de Investigación de Recuperación de Información (SIRI) | 2007 |

**Languages**

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| Fluent in Spanish in all aspects: reading, writing and speaking | 2010-2011 |

**References**

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| **Professor Daniel Lemire** | **Professor Owen Kaser** |
| Professor University of Quebec at Montreal  (UQAM) Montreal, Quebec, Canada phone & e-mail: available on request | Professor University of New Brunswick (UNB)  Saint John, New Brunswick, Canada phone & email: available on request |
| **Eng. Michael Beam** | **Dr. Herman Jaramillo** |
| Software Engineer ION Geophysical Houston, TX, USA phone & e-mail: available on request | Senior Research Geophysicist ION Geophysical Houston, TX, USA phone & e-mail: available on request |